Garlock

Garlock ePTFE Joint Sealant Tape

Style 3535 expanded sealant tape

Garlock Joint Sealant Tape, Style 3535 is made of 100% pure expanded PTFE. Garlock Style 3535 is a universal sealing solution on a spool, for large diameter flanges, which can instantly be formed in place to fit any shape regardless of its complexity. The high compressibility of Style 3535 allows the product to conform to surfaces and compensate for out-of parallel or damaged sealing surfaces.

TYPICAL APPLICATIONS

- Handholes and manholes
- Duct work, compressors
- Housing covers, pump housings
- Irregular flanges

IDEAL FOR

- Large, complex and/or damaged flanges
- Aggressive media
- Light weight connections
- Low load flanges

TECHNICAL DATA

Temperatures

- - 450˚F (-120˚C) to 500˚F (260˚C)
- Ideal operating limit: 400˚F

Pressure

- Full vacuum to 800 psi (55 bar) depending on installation situation

Chemical resistance

- Resistant to most chemicals (pH 0-14) except molten alkali metals and elemental fluorine

KEY ATTRIBUTES

- Simple and easy to install / reduced downtime
- No wasteful scrap
- Reduced inventory
- Chemical and temperature resistant

STANDARDS AND CERTIFICATIONS

- FDA 21 CFR 177.1550
- EC 1935/2004 and EC 10/2011
- TA-Luft:2021 EN13555 results available
- DVGW
- ADI – free (TSE, BSE)
- REACH compliant

AVAILABLE SIZES

Approx. Width in.	Approx. Thickness in.	Length of Sealant Tape ft.
⅛	0.059	100
3⁄16	0.079	75
¼	0.098	50, 500
⅜	0.12	25, 50
½	0.2	15, 30, 150
⅝	0.24	15, 30, 150
¾	0.28	15, 30, 100
1	0.39	15, 30, 75

DIN EN 13555 HIGHLIGHTS:

Complete report is available on gasketdata.org

Q min (0,01)	33 Mpa
Q_S min (0,01)	9 Mpa
P_{QR} (30Mpa RT)	0.66
P_{QR} (30Mpa 150°C)	0.03

NOTE: When approaching maximum pressure or temperature, consult Garlock Engineering.

GARLOCK
an Enpro Company

1666 Division Street
Palmyra, NY 14522

Tel: 1-877-GARLOCK / 315.597.4811
Fax: 800.543.0598 / 315.597.3216

www.garlock.com

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Installation Instructions

1.1 SIZE SELECTION

Sealing width (in.)	⅛ - ¼	¼ - ⅜	⅜ - ⅝	⅝ - 1	1 - 1.6	1.6 - 2	2 - 2.5	2.5 +
3535 width (in.)	⅛	3⁄16	¼	⅜	½	5/8	¾	1

For Tongue and Groove flanges: Select the nominal width of Garlock Style 3535 that is equal to or less than the width.

1.2 INSTALLATION

Clean the sealing surface, remove old sealing remains, and check for damage.

After the sealing surface is cleaned, position the Garlock Style 3535 sealant tape in the middle of the sealing surface.

When applying the sealant tape, progressively remove the adhesive paper backing. Make sure that the adhesive is not contaminated or damaged during installation, this can influence the positioning of the tape.

Position the end of the sealant tape around the starting bolt hole. Complete the installation by overlapping both ends of the sealing tape at the starting bolt hole, and cut away any excess material.

1.3 TIGHTEN THE NUTS IN MULTIPLE STEPS

STEP 1:
Tighten all nuts initially by hand using a crossing pattern. For larger bolts, a small hand wrench may be required.

STEP 2:
Torque each nut to approximately 30% of full torque, using a crossing pattern.

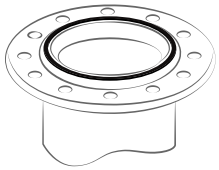
STEP 3:
Torque each nut to approximately 60% of full torque, using a crossing pattern.

STEP 4:
Torque each nut to full torque, again using the crossing pattern. Large-diameter flanges may require additional tightening passes.

STEP 5:
Apply at least one final full torque to all nuts in a clockwise direction until the torque is uniform. Large-diameter flanges may require additional tightening rounds.

Standard Flanges Flat Face

Standard Flanges Raised Face

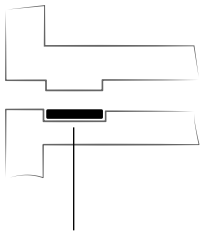


Fragile Flanges

Option 1
To prevent flange rotation.

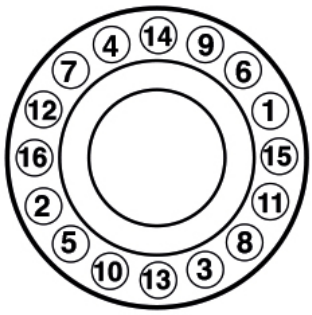
Option 2
To minimize flange rotation.

Tongue & Groove



To ensure proper gasket compression, the tongue must be equal to or taller than the groove depth.

Always torque nuts using a crossing pattern.



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